

What is claimed is:

1. A conveyance apparatus for a dipping treatment having a conveyor disposed above a treatment bath for dipping and the like and designed to cause a workpiece conveyed by the conveyor to be immersed in and emerge from the treatment bath for dipping and the like, wherein the workpiece is supported above the conveyor through a carrier, and the carrier is swung above the treatment bath for dipping and the like in a plane at right angles to the direction of travel to cause the workpiece to be immersed in and emerge from the treatment bath for dipping and the like.
2. The conveyance apparatus for the dipping treatment according to claim 1, wherein a part of the conveyor which is positioned above the treatment bath for dipping and the like is provided with a movable section which rotates in the plane at right angles to the direction of travel and this movable section is caused to rotate together with the carrier.
3. The conveyance apparatus for the dipping treatment according to claim 1, wherein the conveyor positioned above the treatment bath for dipping and the like is positioned in one level plane.
4. The conveyance apparatus for the dipping treatment according to claim 1, wherein more than one treatment bath for dipping and the like are disposed in series, and the dipping treatment is performed for each treatment bath for dipping and the like in sequence.
5. The conveyance apparatus for the dipping treatment according to claim 1, wherein a tact conveyance method is employed whereby the dipping treatment is performed after the carrier is stopped above the treatment bath for dipping and the like.
6. A conveyance method of dipping treatment of a workpiece being provided above a treatment bath for dipping, conveyed by a conveyor and immersed and emerge from the treatment bath comprising the steps of:
supporting and moving a workpiece above the conveyor through a carrier;
stopping the carrier above a treatment bath and the like; and
swinging the carrier above the treatment bath for dipping and the like in a plane at right angles to the direction of travel to cause the workpiece to be immersed and emerge from the treatment bath for dipping and the like.

7. The conveyance apparatus for conveying different kinds of workpieces in a mixed condition to treating section, the apparatus is provided with a corresponding exclusive treating section on each side of a conveyor for each different kind of workpiece, the workpiece on the conveyor can be horizontally rotated selectively, either to the right or left side in the direction of travel of the conveyor, corresponding to the treating section, and the apparatus is constituted to treat each workpiece in accordance with the treating conditions.

8. A conveyance apparatus for conveying different kinds of workpieces in a mixed condition according to claim 7, wherein said treatment is a pretreatment process preceding a painting process in a painting line.

9. A conveyance apparatus for conveying different kinds of workpieces in a mixed condition according to claim 7, wherein said treatment is a drying process subsequent to a painting process in a painting line.

10. A conveyance apparatus for conveying different kinds of workpieces in a mixed condition according to claim 7, wherein said treating section comprises dipping baths, and the adjoining baths are arranged at different heights.

11. A conveyance apparatus for conveying different kinds of workpieces in a mixed condition to treating sections, wherein said apparatus is provided with a corresponding exclusive treating section on each side of a conveyor for each different kind of workpiece, and the apparatus is adapted to allow the workpiece on the conveyor to be horizontally rotated selectively to the right or left side in the direction of travel, corresponding to the treating conditions so as to treat the workpiece at any of the right or left exclusive treating sections or to pass the workpiece without rotating horizontally in the case where the treating condition is not suitable for any of these exclusive treating sections.

12. A conveyance method for dipping treatment of different kind of workpieces in a mixed condition comprising the steps of:

supporting different kind of workpieces above the conveyor;

moving the workpieces on the conveyor to a treatment bath ;

stopping a workpiece above a treatment bath; and

rotating horizontally the workpiece on the conveyor selectively either to the right or left side in the direction of travel of the carrier to treat each workpiece in accordance with the treating condition.

Sub A1

13. A conveyance apparatus for multi-color painting, wherein the apparatus is provided with painting sections for applying different colors at both the left and right sides of a single conveyor, and a workpiece which is guided and moved by said conveyor is allowed to rotate horizontally either to the right or left side and is painted with a required color in any one of said painting sections.

Sub B1

14. A conveyance apparatus for multi-color painting according to claim 13, wherein said painting is electrodeposition, and said painting section is a paint bath for dipping.

Sub A2

15. A conveyance method for multicolor painting of a workpiece comprising the steps of:
supporting a workpiece above the conveyor;
moving the workpiece to painting sections;
stopping the carrier above painting sections for applying different colors at both the left and right sides of a single conveyor: and
rotating the conveyor either to the right or left side to paint the workpiece with a required color in any one of the painting sections.